



MASTERS PROGRAM - Curriculum Map

*The curriculum represented is valid at time of printing. Future changes made to the STST curriculum will supersede content below.



SENIOR MASTER TECHNICIAN

The Senior Master title is the highest distinction a Ford or Lincoln Technician can attain!
Complete coursework in all 3 Master Technician Categories to become a certified SENIOR MASTER TECHNICIAN.

MASTER TECHNICIAN

Complete a designated course plan below to become a MASTER TECHNICIAN.

Engine Master Technician Specializing in Gasoline or Diesel

Drivetrain Master Technician

Chassis Master Technician

Gasoline

Diesel

***Tenure Required for All Categories - 5 years of service as a technician at a Ford or Lincoln dealership**

Specialty #34 - Electrical Systems

This certification will prepare technicians to properly diagnose and repair electrical systems. Included in this certification is the Symptom-to-System-to-Component-to-Cause diagnosis process and the use of service publications, tools, and equipment to diagnose and repair electrical concerns.

16 Web-based classes/3 Instructor led classes (10 days)

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Specialty #31 - Gasoline Engine Performance

The Gasoline Engine Performance certification consists of three individual classroom courses and several eLearning WBTs that directly affect drivability and gasoline engine performance. These courses include sensor identification/function, various diagnostics, and testing of the engine management system. Each of the eLearning and classroom courses build on one another. This training includes diagnostic tool usage (IDS/FDRS, PID Data/Data Logger, Oscilloscope, etc.) and testing of OBDII Emission related systems.

12 Web-based Classes / 3 Instructor Led Classes (10 days)

Specialty #51 - Diesel Engine Performance

The courses in the Diesel Engine Performance certification cover operation, diagnosis, and testing of diesel engine management systems on Ford diesel vehicles. It includes diagnosis and testing of fuel supply and delivery systems as well as the air inlet and exhaust systems, including emission-related systems. The advanced diagnosis of diesel engine control system emphasizes use of critical testing equipment.

11 Web-based classes/1 Instructor led class (4 days)

Specialty #36 - Manual Transmission & Drivetrain

This certification covers manual transmission/transaxle systems through a competency-based approach to developing system knowledge and hands-on skill demonstration. Items included in this certification are knowledge of system components and an understanding of the operation of manual transmission/transaxles, 4x4 transfer case, drivelines, and differential units.

8 Web-based classes/2 Instructor led classes (6 days)

Specialty #33 - Steering & Suspension

The courses in the Steering and Suspension certification cover diagnosis and testing of base steering and suspension components. In addition, it includes segments on alignment, advanced diagnosis/testing of electronic steering and suspension systems, principles of diagnosing noise, vibration, and harshness concerns, including the use of chassis ears and electronic vibration analyzers.

10 Web-based classes/2 Instructor led classes (5 days)

Specialty #32 - Gasoline Engine Repair

This training includes proper diagnosis, disassembly/assembly, component identification/operation, repair and diagnosis of Ford Motor Engines and various components. The training includes a classroom course and several eLearning WBTs that directly correlate to engine diagnosis and repair. These courses also contain specific detailed information and how-to: critical measuring techniques, component clearances, and engine timing.

15 Web-based classes/4 Instructor led classes (11 days)

Specialty #52 - Diesel Engine Repair

The certification for Diesel Engine Repair covers proper diagnosis, disassembly, assembly, and repair techniques for diesel engines used in Ford vehicles. The courses cover procedures for critical measurement of clearances and procedures for the replacement of engine assemblies.

14 Web-based classes/4 Instructor led classes (11 days)

Specialty #37 - Automatic Transmission

These courses in the Automatic Transmission certification cover operation, diagnosis and testing of hydraulic and mechanical systems of Ford automatic transmissions/transaxles. It also includes proper component disassembly, inspections, and measuring of critical clearances on automatic transmissions/transaxles.

21 Web-based classes/3 Instructor led classes (10 days)

Specialty #35 - Climate Control

This certification will prepare technicians to properly diagnose and repair climate control systems. Items included in this certification are system description and operation of heating and refrigeration systems, their components and function. It also covers the operation and diagnosis of both manual and the electronic climate control systems.

5 Web-based Classes / 1 Instructor Led Class (3 days)

Specialty #38 - Brakes

This certification will prepare technicians to diagnose and repair brakes and braking systems including the associated hydraulic, mechanical, and electronic subsystems that comprise the various parts of the system. Comprehensive coverage of the theory and operation of brakes and braking systems are covered, including the ABS, IVD, and traction control systems.

9 Web-based classes/3 Instructor led classes (6 days)

Specialty #30 - New Model Training Courses

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This planner offers a consolidated list of new model training courses currently available for technicians. The courses serve as an introduction to new vehicles and new technology

8 Web-based classes/10 Electives (9 are On-Demand Webinar)

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